From the INTERNATIONAL SEARCHING AUTHORITY EINGANG RECEIVED							
То:		1 7, Dez. 2004 Gewerblicher Rechtsschutz	PCT				
see form PCT/ISA/220	· <u>-</u>	INTERNATION	EN OPINION OF THE IAL SEARCHING AUTHORITY				
		(F	CT Rule 43 <i>bis</i> .1)				
		Date of mailing (day/month/year) see	form PCT/ISA/210 (second sheet)				
Applicant's or agent's file reference see form PCT/ISA/220 /278	WOOLDON	FOR FURTHER A See paragraph 2 below					
International application No. PCT/EP2004/052378	International filing date (d 30.09.2004	lay/month/year)	Priority date (day/month/year) 01.10.2003				
International Patent Classification (IPC) or C07D471/04, A61K31/437, A61K3							
Applicant ALTANA PHARMA AG							
This opinion contains indications relating to the following items:							
 ☑ Box No. I Basis of the opinion ☑ Box No. II Priority 							
Box No. IV Lack of unity of invention							
☐ Box No. V Reasoned sta							
Box No. VI Certain docum	ents cited						
☐ Box No. VII · Certain defect	s in the international app	lication	•				
☐ Box No. VIII Certain obser	rations on the internation	al application					
2. FURTHER ACTION							
If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.							
If this opinion is, as provided ab submit to the IPEA a written rep months from the date of mailing whichever expires later.	ly together, where appror	priate, with amendmer	PEA, the applicant is invited to nts, before the expiration of three of 22 months from the priority date,				
For further options, see Form P	CT/ISA/220.						
3. For further details, see notes to	Form PCT/ISA/220.						

Name and mailing address of the ISA:



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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

10/573484 International application No. PCT/EP2004/052378

'AP9 Rec'd PCT/PTO 24 MAR 2006

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	Box No. I	Basis of the opinion
1.		d to the language, this opinion has been established on the basis of the international application in ge in which it was field, unless otherwise indicated under this item.
	langu:	opinion has been established on the basis of a translation from the original language into the following age , which is the language of a translation furnished for the purposes of international search r Rules 12.3 and 23.1(b)).
2.		d to any nucleotide and/or amino acid sequence disclosed in the international application and to the claimed invention, this opinion has been established on the basis of:
	a. type of	material:
	□ as	sequence listing
	□ tab	ple(s) related to the sequence listing
	b. format o	of material:
	□ in	written format
	□ in	computer readable form
	c. time of t	iling/furnishing:
	□ со	ntained in the international application as filed.
	□ file	ed together with the international application in computer readable form.
	☐ fur	nished subsequently to this Authority for the purposes of search.
3.	has be copie:	dition, in the case that more than one version or copy of a sequence listing and/or table relating thereto een filed or furnished, the required statements that the information in the subsequent or additional is is identical to that in the application as filed or does not go beyond the application as filed, as priate, were furnished.
4.	Additional	comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2004/052378

_	Вох	No. II	Priority		
1.	Ø	The fo	llowing document has not been furnished:		
			copy of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(a)).		
			translation of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(b)).		
			quently it has not been possible to consider the validity of the priority claim. This opinion has heless been established on the assumption that the relevant date is the claimed priority date.		
2.		This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43 <i>bis</i> .1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.			
3.	Add	itional	observations, if necessary:		

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:						
	the entire international application,					
\boxtimes	claims Nos. 13,14 with respect to Industrial Applicability					
because:						
Ø	the said international application, or the said claims Nos. 13,14 with respect to IA relate to the following subject matter which does not require an international preliminary examination (specify):					
	see separate sheet					
	the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):					
	the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.					
	no international search report has been established for the whole application or for said claims Nos.					
	the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:					
	the written form		has not been furnished			
			does not comply with the standard			
	the computer readable form		has not been furnished			
			does not comply with the standard			
	the tables related to the nucleot not comply with the technical re	ide a quire	and/or amino acid sequence listing, if in computer readable form only, doements provided for in Annex C-bis of the Administrative Instructions.			
	See separate sheet for further of	letail	s			

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-14

No:

Claims

Inventive step (IS)

Yes: Claims

1-14

No:

Claims

Industrial applicability (IA)

Yes: Claims

1-12

No: Claims

2. Citations and explanations

see separate sheet

Box No. VI Certain documents cited

1. Certain published documents (Rules 43bis.1 and 70.10) and/or

2. Non-written disclosures (Rules 43bis.1 and 70.9)

see form 210

Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

Claims 13 and 14 relate to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(I) PCT).

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

The following document are referred to in this communication:

D1: WO 00/49015 A (TAKE KAZUHIKO ;FUJISAWA PHARMACEUTICAL CO (JP); TOMISHIMA MASAKI () 24 August 2000 (2000-08-24)

Novelty and Inventive step

1) Document D1, which is considered to represent the most relevant state of the art, discloses **pyridine compounds** which are linked to a heterocyclic group such as a **benzimidazolyl group**. The compounds are having an inhibitory activity on the production of nitric oxide and are useful for the prevention and/or treatment of NOS (nitric oxide synthase)-mediated diseases.

From this, the subject-matter of the present claims differs in that the present application deals with **pyridin-2-yl-alkylene-3H-imidazo[4,5-b]pyridine** derivatives, which compounds are also having an inhibitory activity on the production of nitric oxide and are useful for the prevention and/or treatment of NOS (nitric oxide synthase)-mediated diseases.

The subject-matter these claims is therefore novel (Article 33(2) PCT)

2) The problem to be solved by the present invention may be regarded as the provision of further compounds that are having an inhibitory activity on the production of nitric oxide and are useful for the prevention and/or treatment of NOS (nitric oxide synthase)-mediated diseases.

The solution to this problem proposed in the claims of the present application is

considered as involving an inventive step (Article 33(3) PCT) for the following reasons: The present specifically substituted **imidazo[4,5-b]pyridine** derivatives of formula (I) are structurally very remote from any of the available prior art compounds having the same use and it is therefore considered that there were no incentives from this prior art to use the above described **pyridin-2-yl-alkylene-3H-imidazo[4,5-b]pyridine** derivatives as nitric oxide synthase inhibitors.

3) The statements in the description on page 14, third paragraph, implies that the subject-matter for which protection is sought may be different to that defined by the claims, thereby resulting in lack of clarity (Article 6 PCT) when used to interpret them.

Industrial applicability

4) For the assessment of the present claims 13 and 14 on the question whether they are industrially applicable, no unified criteria exist in the PCT Contracting States. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however, claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.